Notice of Allowability 10/715,456		Application No.	Applicant(s)	
Notice of Allowability Examiner Khai M. Nguyen 2819 — The MAILING DATE of this communication appears on the cover sheet with the composphoration address— All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THI NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initi of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. ☑ This communication is responsive to 92222005. 2. ☑ The allowed claim(s) is/are 1.4.6 and 8-12. 3. ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☑ All b) ☐ Some* o ☐ None of the: 1. ☑ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in Application No 3. ☐ Cortified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. Certified capies required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) ☐ hereto or 2) ☐ Popary No./Mail Date Inherentor 2. ☐ Popary No./Mail Date Inherentor 3. ☐ Popary No./Mail Date Paper No./Mail Date Paper No./Mail Date Paper No./Mail Date		Application No.		(W~
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Application/Control Number: 10/715,456

Art Unit: 2819

DETAILED ACTION

- 1. The drawings filed on 11/19/2003 are accepted.
- 2. Claims 1, 4, 6, and 8-12 are allowed.

The following is an examiner's statement of reasons for allowance: the primary reason for allowance of the modulator of claims 1 & 4 is the inclusion of the subject matter of claims 2 and 5 combined, and wherein the modulator includes, inter alia, the quantizer quantizing the digital input signal; the adder adding the digital input signal to the signal component provided from the quantizer; and the attenuator, having a coefficient smaller than one, is connected between the adder and the single-stage delta-sigma modulator.

The primary reason for allowance of claim 6 is the inclusion of, among other things, the component separating unit and the sigma-delta modulator, wherein the component-separating unit includes a multi-bit quantizer for quantizing the digital input signal, and an adder for adding the digital input signal to the signal component provided from the multi-bit quantizer.

And for claims 8-12, these claims are allowed for the similar reason that is the modulator(s) of the claimed invention includes, inter alia, the component separating unit and the sigma-delta modulator, wherein the component-separating unit includes: a quantizer for quantizing the analog input signal; a DAC for converting the signal component provided from the quantizer to an analog signal; and an adder for adding the analog input signal to the converted analog signal. The prior of record fails to teach the modulators of the claimed invention. Therefore, claims 1, 4, 6, and 8-12 are allowed.

Application/Control Number: 10/715,456 Page 3

Art Unit: 2819

3. Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Khai M. Nguyen whose telephone number is 571-272-

1809. The examiner can normally be reached on 9:00 - 5:30 Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Robert (Bob) J. Pascal can be reached on 571-272-1769. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

September 29, 2005

Khai M. Nguyen Art Unit: 2819 571-272-1809 PEGUY JEANPIERRE

PRIMARY EXAMINER